

CLAIMS

1. A variable displacement compressor having a discharge chamber, a suction chamber and a crank chamber, said compressor comprising a displacement control valve disposed at a position in a discharge pressure supply passageway capable of communicating with said crank chamber from said discharge chamber, and a fixed orifice disposed at a position in a pressure relief passageway communicating with said suction chamber from said crank chamber, said displacement control valve being controlled in opening/closing operation to adjust a pressure in said crank chamber to control a piston stroke, wherein a part of said discharge pressure supply passageway and a part of said pressure relief passageway are formed as a common passageway communicating with an end of said crank chamber.
2. The variable displacement compressor according to claim 1, wherein a part of said common passageway is formed as a passageway through a bearing for a compressor main shaft.
3. The variable displacement compressor according to claim 1, wherein a part of said common passageway includes a gas chamber formed at a shaft end extended portion of a compressor main shaft.
4. The variable displacement compressor according to claim 1, wherein said fixed orifice is formed in said displacement control valve.